



# AJMAL SUPER 40

## A TRUSTED PLATFORM FOR NEET & JEE



### SYLLABI FOR ADMISSION CUM SCHOLARSHIP TEST - 2024

#### SECOND PHASE

##### FOR CHALLENGER BATCH

Complete Syllabus of Class XII in NEET & JEE Pattern.

##### FOR CLASS - XI

- 1. Mathematics (40 Marks):** Number Systems, Polynomials, Pair of linear equation in two variable, Quadratic equation, Arithmetic Progression, Co-ordinate Geometry, Trigonometry up to Application, Probability, Triangle, Quadrilaterals, Circle, Mensuration, Statistics.
- 2. Science (60 Marks):**
  - a) Physics:- Light reflection & Refraction, Electricity, Magnetic effects of electric current.
  - b) Chemistry:- Atoms & Molecules, Structure of the atom, reactions & Equations, Acids, Bases and Salts, Metals & Non-Metals, Carbon and Its Compounds, Periodic Classification of Elements.
  - c) Biology:- Sexual Reproduction in plants and Humans (How do Organisms reproduce), Control & Coordination, Life Processes, Heredity & Evolution, Our Environment, Human eye & Colourful world.
- 3. English (25 Marks):** Tense, Voice, Vocabulary & Error Correction, Preposition, Tag Question, Article & Determiners and Parts of speech
- 4. GK & Reasoning (25 Marks):** \_\_\_\_\_

##### FOR CLASS - IX

- 1. Mathematics (40 Marks):** Linear equation in one variable, Formation of Angles by compass, Quadrilaterals (All type) with properties, Data handling, Comparing Quantities, Algebraic expression and identities, Mensuration, Factorisation, Introduction to graph.
- 2. Science (60 Marks):**
  - a) Physics:- Kinematics- The concept of Scalar and vector quantities, Distance and displacement, Speed, Velocity, acceleration, Equations of motion; Newton's law of motion- Concept of force, Newton's 1st, 2nd and 3rd law; Friction: NCERT; Sound: NCERT; Light: Reflection of light.
  - b) Chemistry: Metals and non metals, Combustion and flame, Coal and Petroleum, Synthetic fibre and plastics.
  - c) Biology: Crop production: types of crops, uses and importance of manures and different type of fertilizers, cropping processes; About microorganisms: its types, usefulness and harmfulness, about fermentation, Pasteurization, vaccine and its working process, antibiotics, antibodies - antigens, diseases caused by microorganisms and its prevention, nitrogen cycle; Conservation of wildlife: Its importance, and the methods of conserving of wildlife; Basic concept of cell: types of cells, different cell organelles and their functions, gene, animal cell and plant cell difference; Basic concept of Reproduction in Animals: About male reproductive organ and female reproductive organs, process of fertilization, types of reproduction; Concept of Adolescence: Changes during adolescence, Hormones and their functions during adolescence, concept of sex determination in a baby; About pollution and its Harmfulness: soil pollution, air pollution, water pollution, Global warming, acid rain, what can be done to minimize pollution.
- 3. English (25 Marks):** Tense, Determiner, Preposition, Voice change, Tag questions, Vocabulary (Synonyms and Antonyms)
- 4. GK & Reasoning (25 Marks):** \_\_\_\_\_

## AJMAL FOR EDUCATION, EDUCATION FOR ALL.